

TITLE: APPARATUS AND METHOD FOR  
CALCULATING SIMULATION  
COVERAGE  
INVENTORS: Kenji ABE, et al.  
SERIAL NO.: Unassigned  
DOCKET NO.: 1095.1281

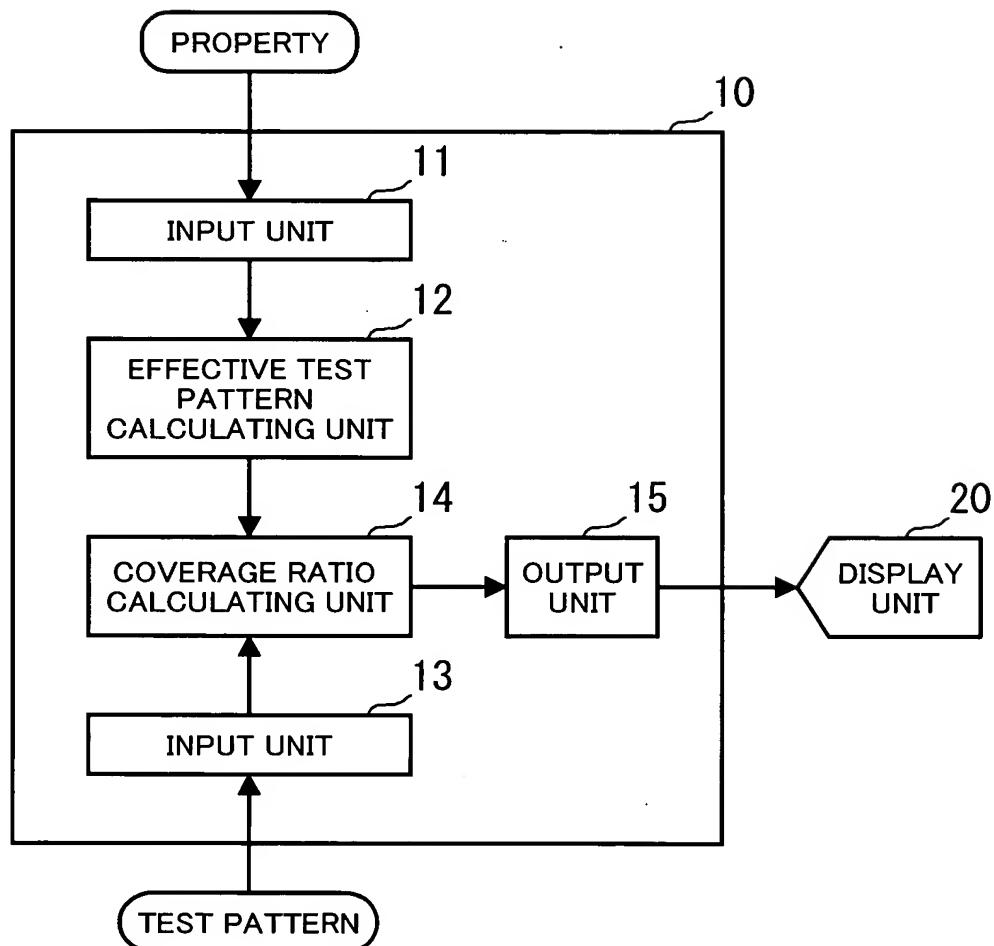


FIG.1

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	t			t+1		
	P	Q	EN	P	Q	EN
PATTERN $\alpha$	1	1	0	0	0	0
PATTERN $\beta$	1	1	0	0	0	1
PATTERN $\gamma$	0	0	0	0	0	1
PATTERN $\delta$	0	1	0	0	1	1
PATTERN $\varepsilon$	1	0	0	1	0	1

FIG.2

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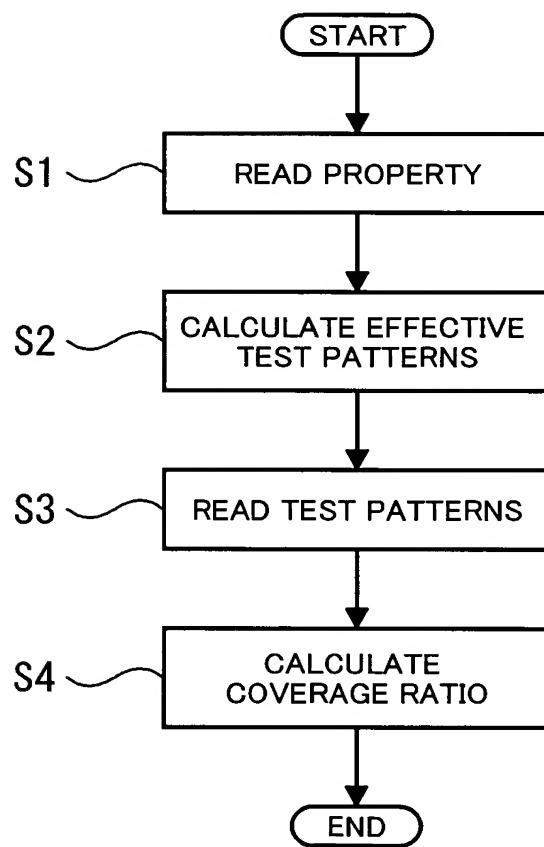


FIG.3

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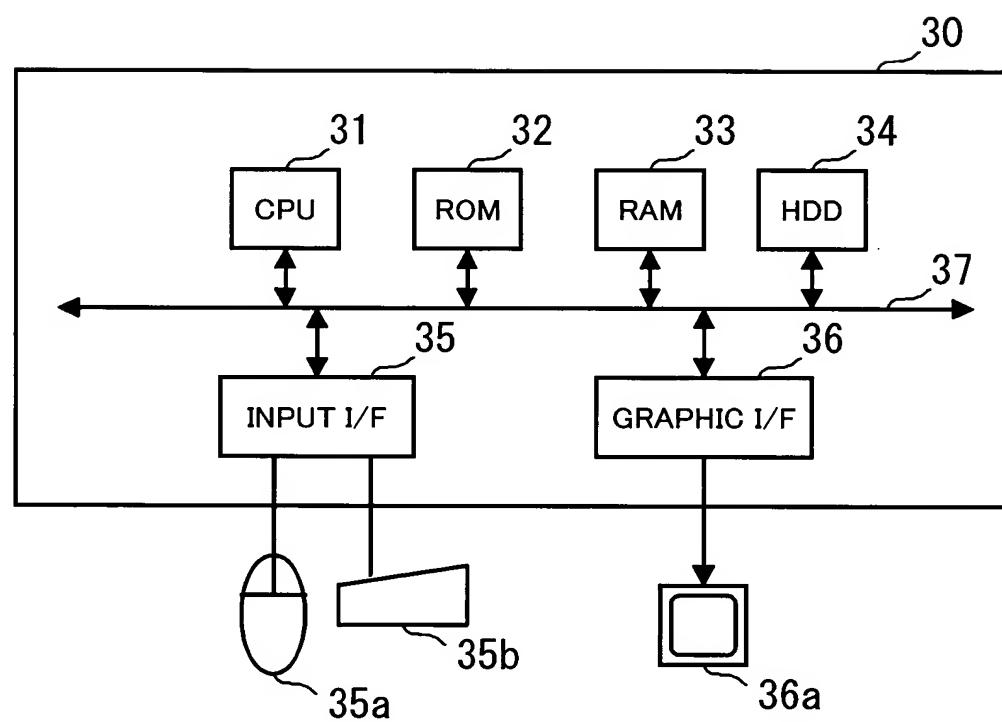


FIG.4

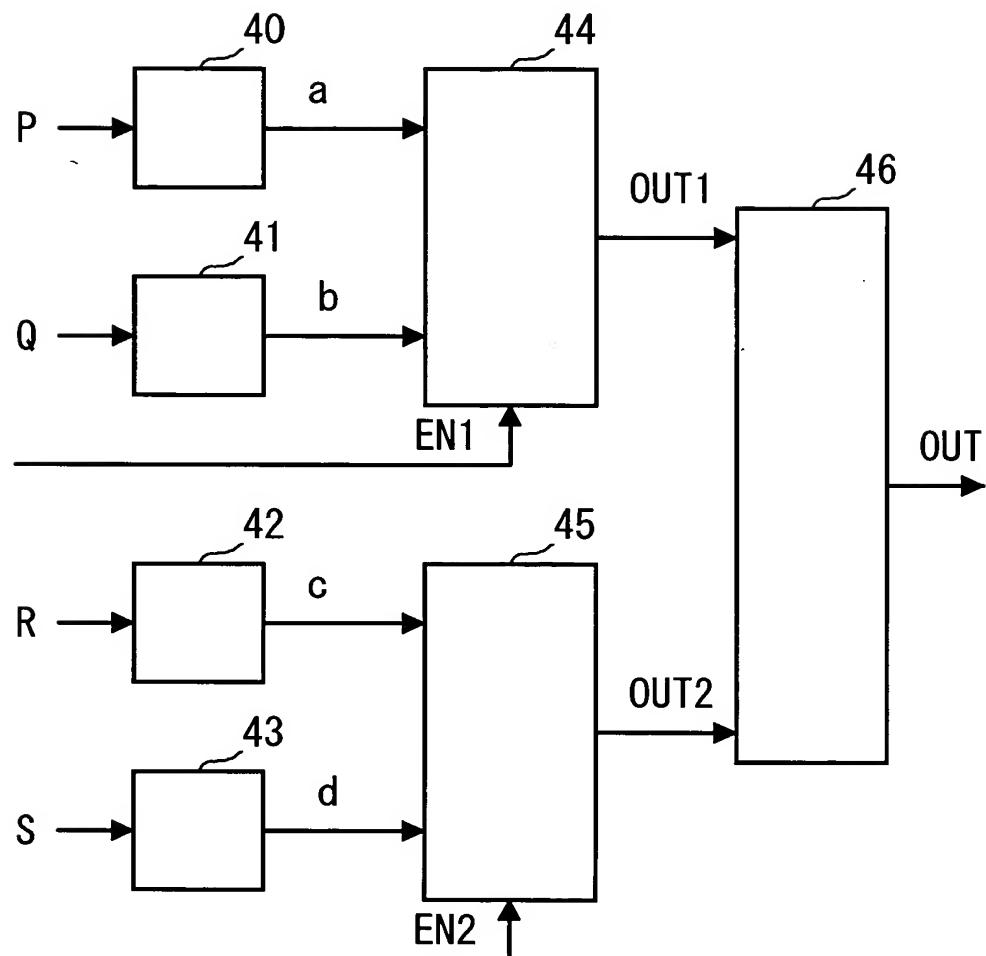


FIG.5

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	t				t+1				t+2			
	P	Q	R	S	P	Q	R	S	P	Q	R	S
PATTERN(1)	0	0	0	0	—	—	—	—	—	—	—	—
PATTERN(2)	0	0	0	1	—	—	—	—	—	—	—	—
PATTERN(3)	0	0	1	0	—	—	—	—	—	—	—	—
PATTERN(4)	0	0	1	1	—	—	—	—	—	—	—	—
PATTERN(5)	0	1	0	0	—	—	—	—	—	—	—	—
PATTERN(6)	0	1	0	1	—	—	—	—	—	—	—	—
PATTERN(7)	0	1	1	0	—	—	—	—	—	—	—	—
PATTERN(8)	0	1	1	1	—	—	—	—	—	—	—	—
PATTERN(9)	1	0	0	0	—	—	—	—	—	—	—	—
PATTERN(10)	1	0	0	1	—	—	—	—	—	—	—	—
PATTERN(11)	1	0	1	0	—	—	—	—	—	—	—	—
PATTERN(12)	1	0	1	1	—	—	—	—	—	—	—	—
PATTERN(13)	1	1	0	0	—	—	—	—	—	—	—	—
PATTERN(14)	1	1	0	1	—	—	—	—	—	—	—	—
PATTERN(15)	1	1	1	0	—	—	—	—	—	—	—	—
PATTERN(16)	1	1	1	1	—	—	—	—	—	—	—	—

FIG.6A

	t		t+1		t+2	
	EN1	EN2	EN1	EN2	EN1	EN2
PATTERN1	—	—	1	1	—	—

FIG.6B

	t		t+1		t+2	
	OUT1	OUT2	OUT1	OUT2	OUT1	OUT2
PATTERN①	—	—	—	—	0	1
PATTERN②	—	—	—	—	1	0
PATTERN③	—	—	—	—	1	1

FIG.6C

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```
always @(posedge CLK) begin
    if (P)
        a <=a1;          (1)
    else
        a <=a2;          (2)
end

always @(posedge CLK) begin
    if (Q)
        b <=b1;          (3)
    else
        b <=b2;          (4)
end

always @(posedge CLK) begin
    if (EN)
        OUT <=a & b;    (5)
    else
        OUT <=0;          (6)
end
```

FIG.7  
PRIOR ART

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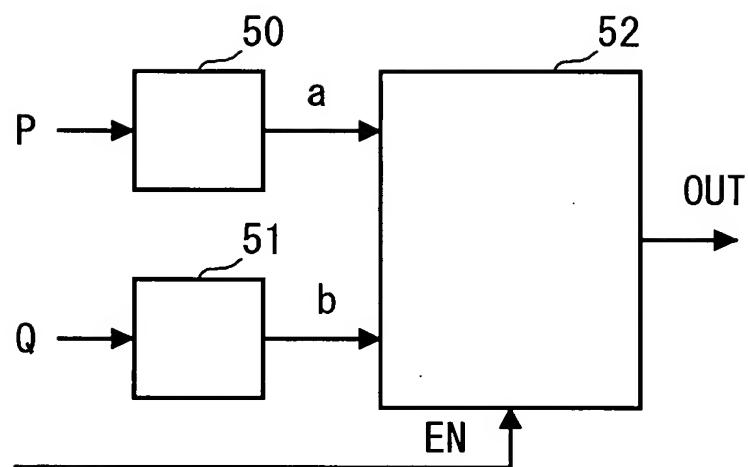


FIG.8  
PRIOR ART

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	t			t+1		
	P	Q	EN	P	Q	EN
PATTERN(1)	0	0	—	—	—	1
PATTERN(2)	0	1	—	—	—	1
PATTERN(3)	1	0	—	—	—	1
PATTERN(4)	1	1	—	—	—	1

**FIG.9**  
**PRIOR ART**

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	t			t+1		
	P	Q	EN	P	Q	EN
PATTERN $\alpha$	1	1	0	0	0	0
PATTERN $\beta$	1	1	0	0	0	1

FIG.10  
PRIOR ART